

Sheet 1 of 1FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.  
1217-990257SERIAL NO.  
09/253,638INFORMATION DISCLOSURE STATEMENT  
STATEMENT BY APPLICANTAPPLICANT(S)  
Keisuke OGURO et al.

(Use several sheets if necessary)

FILING DATE  
February 19, 1999GROUP  
Art Unit 1713

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA						
	AB						
	AC						
	AD						
	AE						
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	AH						
	AI						
	AJ						
	AK						

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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
78	AL	04 2 7 5 0 7 8	9/1992	Japan			Abstract	
78	AM	08 1 3 1 5 4 5	5/1996	Japan			Abstract	
	AN							
	AO							
	AP							

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

78	AQ		Kanafuji, Keiichi et al., "Fabrication of Artificial Muscle Using Synthetic Polymer". <u>Applied Physics</u> , Vol. 65, No. 8, pp. 803-810 (1996), partial translation (3pp.)
78	AR		Takashima, Wataru et al., "Electrochemomechanical Deformation of Polyaniline Films". <u>Jpn. J. Appl. Phys.</u> , Vol. 34, Pt. 1, No. 7B (July 1995) pp. 160-163
	AS		

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Zhu, Zhan

DATE CONSIDERED

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EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>75</i>	AA	5	2	6	8	0	8	2	12/07/93	Oguro et al.	204	282	
	AB												
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## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
<i>78</i>	AL	WO	97	2	6	0	3	9	7/1997	WIPO				
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## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>73</i>	AQ		Okuzaki, H. et al., "Electro-driven Polymer Gels with Biomimetic Motility." <u>Polymer Gels and Networks</u> , vol. 2, no. 3-4, pp. 267-277 (1994)
<i>74</i>	AR		Caldwell, D.G., "Pseudomuscular actuator for use in dextrous manipulation." <u>Medical &amp; Biological Engineering &amp; Computing</u> , vol. 28, no. 6, pp. 595-600 (1 Nov. 1990)
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